

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY **GOVERNOR**

LYNDO TIPPETT SECRETARY

June 3, 2005

United States Army Corps of Engineers Regulatory Field Office Post Office Box 1000 Washington, NC 27899-1000

ATTN:

Mr. Bill Biddlecome

NCDOT Coordinator-Division One

SUBJECT:

Nationwide 6 Permit Application:

Bridge No. 212 over Bachelor Creek on SR 1005; Craven County; TIP Project B-4085; Federal Aid Project No. BRSTP-1005(7); State Project

No.33444.1.1.

Dear Mr. Biddlecome,

The North Carolina Department of Transportation (NCDOT) is in the process of planning a foundation investigation for the above referenced project. A consultant will be conducting the investigation with a minimum of 8 borings. Four of the borings will be performed within Bachelor Creek and will be drilled through the bridge deck of the existing bridge. Four others will be drilled through the existing roadway embankment. All eight borings are shown on the attached permit drawings.

Due to the fact Bachelor Creek supports anadromous fish, notification to the appropriate agencies through a Nationwide 6 Permit is required.

In order to build the new bridge over Bachelor Creek, geotechnical test borings will need to be done so that structure and foundation recommendations can be made. All borings will be drilled utilizing a drill mounted on an ATV (All Terrain Vehicle) or a Drill Truck. The size of the borings are approximately 0.5 feet in diameter. The area that may be disturbed per boring is estimated to be 4 square feet, for a total disturbance area of 16 square feet with 32 square feet in the creek. The consultant will use casing to advance the borings and rotary-wash techniques while recirculating the drilling fluids between the mud tub and the inside of the casing. This will isolate the drilling mud and cuttings and contain them in the boring and the mud tub. The borings will be backfilled with the

WEBSITE: www.ncdot.org

cuttings and then sealed with a bentonite hold plug. The excess drilling mud will be disposed of in the upland areas.

Because this area is located in sensitive waters, an in-water moratorium exists between February 15 through June 30. All in-stream work will take place outside the moratorium dates.

The NCDOT anticipates that these activities will be authorized by Nationwide Permit No. 6. NCDOT will follow the conditions set by a Nationwide Permit No. 6 and by NCDWQ Water Quality Certification # 3494. In accordance with 15A NCAC 2H.0501 (a), we are providing two copies of this application to the NCDWQ for their records.

If you have any questions or would like additional information, please call Mr. Chris Underwood at (919) 715-1451. Thank you in advance for your help in this matter.

Sincerely,

Gregory J. Thorpe, Ph.D.
Environmental Management Director

Project Development and Environmental Analysis Branch

CC: W/attachment

Mr. John Hennessy, NCDWQ (7 copies)

Mr. Travis Wilson, NCWRC

Mr. Gary Jordan, USFWS

Mr. Ron Sechler, NMFS

Mr. Michael Street, NCDMF

Mr. Cathy Brittingham, NCDCM

Mr. Bill Arrington, NCDCM

Mr. David Chang, P.E., Hydraulics

Mr. Greg Perfetti, P.E., Structure Design

Mr. Mark Staley, Roadside Environmental

Mr. Njoroge W. Wainaina, State Engineering Geologist, P.E., Geotechnical Unit

Mr. C. E. Lassiter, P.E., Division Engineer

Mr. Jay Johnson, DEO

W/o attachment

Mr. David Franklin, USACE, Wilmington (Cover Letter Only)

Mr. Jay Bennett, P.E., Roadway Design

Mr. Omar Sultan, Programming and TIP

Mr. Art McMillan, P.E., Highway Design

Mr. John Williams, P.E., PDEA

Offic	e Us	se Only:			Form Version May 2002
USACE Action ID No.				DWQ N	0
		(If any particular item is	not applicable to this p	roject, please er	nter "Not Applicable" or "N/A".)
I.	Pr	rocessing			
	1.	Check all of the appro ☐ Section 404 Permi ☐ Section 10 Permit ☐ 401 Water Quality	t	r this project:	Riparian or Watershed Buffer Rules Isolated Wetland Permit from DWQ
	<u>2.</u>	Nationwide, Regional	or General Permit	Number(s) R	equested: NW 6
	3.	If this notification is so is not required, check		py because w	ritten approval for the 401 Certification
	4.	2 0	(verify availability		ion Program (NCWRP) is proposed for P prior to submittal of PCN), complete
	5.	4), and the project is	within a North C	Carolina Divi	twenty coastal counties (listed on page ision of Coastal Management Area of her details), check here:
II.	Ap	oplicant Information			
	1.	Owner/Applicant Information Name:Mailing Address:	NCDOT / PDE	vice Center	Greg Thorpe
					Number: (919) 733-9794
	2.	must be attached if the Name:	Agent has signato	ry authority f	
		Company Affiliation:_ Mailing Address:			
		Telephone Number:		Fax N	Number:

III. Project Information

Attach a **vicinity map** clearly showing the location of the property with respect to local landmarks such as towns, rivers, and roads. Also provide a detailed **site plan** showing property boundaries and development plans in relation to surrounding properties. Both the vicinity map and site plan must include a scale and north arrow. The specific footprints of all buildings, impervious surfaces, or other facilities must be included. If possible, the maps and plans should include the appropriate USGS Topographic Quad Map and NRCS Soil Survey with the property boundaries outlined. Plan drawings, or other maps may be included at the applicant's discretion, so long as the property is clearly defined. For administrative and distribution purposes, the USACE requires information to be submitted on sheets no larger than 11 by 17-inch format; however, DWQ may accept paperwork of any size. DWQ prefers full-size construction drawings rather than a sequential sheet version of the full-size plans. If full-size plans are reduced to a small scale such that the final version is illegible, the applicant will be informed that the project has been placed on hold until decipherable maps are provided.

1.	Name of project: Borings for Bridge No. 212 Over Bachelor Creek on SR 1005
2.	T.I.P. Project Number or State Project Number (NCDOT Only): B-4085
3.	Property Identification Number (Tax PIN):
4.	Location
	County: <u>Craven</u> Nearest Town: <u>New Bern</u>
	Subdivision name (include phase/lot number): Directions to site (include road numbers, landmarks, etc.): Bridge No. 212 over Bachelork Creek On SR 1005
5.	Site coordinates, if available (UTM or Lat/Long): N514386 E2545976
٥.	(Note – If project is linear, such as a road or utility line, attach a sheet that separately lists the coordinates for each crossing of a distinct waterbody.)
6.	Property size (acres):
7.	Nearest body of water (stream/river/sound/ocean/lake): Bachelor Creek
8.	River Basin: Neuse
	(Note - this must be one of North Carolina's seventeen designated major river basins. The
	River Basin map is available at http://h2o.enr.state.nc.us/admin/maps/ .)
9.	Describe the existing conditions on the site and general land use in the vicinity of the project at the time of this application: Wetlands and riparian forest with little development.

10. Describe	the	overall	project	in	detail,	including	the	type	of	equipm	ent	to	be	used:
<u>Geotechn</u>	ical	test bori	ngs will	be	made in	the roadw	ay a	nd cre	ek t	ottom.	Dri	lling	rigs	will
be used to	per	form this	work.											

11. Explain the purpose of the proposed work:	<u>To</u>	provide	structure	and	foundation
recommendations for the proposed bridge.					

IV. Prior Project History

If jurisdictional determinations and/or permits have been requested and/or obtained for this project (including all prior phases of the same subdivision) in the past, please explain. Include the USACE Action ID Number, DWQ Project Number, application date, and date permits and certifications were issued or withdrawn. Provide photocopies of previously issued permits, certifications or other useful information. Describe previously approved wetland, stream and buffer impacts, along with associated mitigation (where applicable). If this is a NCDOT project, list and describe permits issued for prior segments of the same T.I.P. project, along with construction schedules.

V. Future Project Plans

Are any future permit requests anticipated for this project? If so, describe the anticipated work, and provide justification for the exclusion of this work from the current application.

Yes. NW 23 permit will be applied for. Typical bridge construction on existing location and improving approaches.

VI. Proposed Impacts to Waters of the United States/Waters of the State

It is the applicant's (or agent's) responsibility to determine, delineate and map all impacts to wetlands, open water, and stream channels associated with the project. The applicant must also provide justification for these impacts in Section VII below. All proposed impacts, permanent and temporary, must be listed herein, and must be clearly identifiable on an accompanying site plan. All wetlands and waters, and all streams (intermittent and perennial) must be shown on a delineation map, whether or not impacts are proposed to these systems. Wetland and stream evaluation and delineation forms should be included as appropriate. Photographs may be included at the applicant's discretion. If this proposed impact is strictly for wetland or stream mitigation, list and describe the impact in Section VIII below. If additional space is needed for listing or description, please attach a separate sheet.

<u>1.</u>	Provide a written description of the proposed impacts:	Soil	borings	in	the	wetland,
	high ground, and river bottom.					

2.	Indiv	ridually	list	wetland	impacts	below:

Wetland Impact Site Number (indicate on map)	Type of Impact*	Area of Impact (acres)	Located within 100-year Floodplain** (yes/no)	Distance to Nearest Stream (linear feet)	Type of Wetland***

^{*} List each impact separately and identify temporary impacts. Impacts include, but are not limited to: mechanized clearing, grading, fill, excavation, flooding, ditching/drainage, etc. For dams, separately list impacts due to both structure and flooding.

List the total acreage (estimated) of all e	xisting wetlands on the property:
Total area of wetland impact proposed:_	

3. Individually list all intermittent and perennial stream impacts below:

Stream Impact Site Number (indicate on map)	Type of Impact*	Length of Impact (linear feet)	Stream Name**	Average Width of Stream Before Impact	Perennial or Intermittent? (please specify)

List each impact separately and identify temporary impacts. Impacts include, but are not limited to: culverts and associated rip-rap, dams (separately list impacts due to both structure and flooding), relocation (include linear feet before and after, and net loss/gain), stabilization activities (cement wall, rip-rap, crib wall, gabions, etc.), excavation, ditching/straightening, etc. If stream relocation is proposed, plans and profiles showing the linear footprint for both the original and relocated streams must be included.

ative impacts (linear distance in feet) to all streams on site:

4. Individually list all open water impacts (including lakes, ponds, estuaries, sounds, Atlantic Ocean and any other water of the U.S.) below:

^{** 100-}Year floodplains are identified through the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps (FIRM), or FEMA-approved local floodplain maps. Maps are available through the FEMA Map Service Center at 1-800-358-9616, or online at http://www.fema.gov.

^{***} List a wetland type that best describes wetland to be impacted (e.g., freshwater/saltwater marsh, forested wetland, beaver pond, Carolina Bay, bog, etc.) Indicate if wetland is isolated (determination of isolation to be made by USACE only).

^{**} Stream names can be found on USGS topographic maps. If a stream has no name, list as UT (unnamed tributary) to the nearest downstream named stream into which it flows. USGS maps are available through the USGS at 1-800-358-9616, or online at www.usgs.gov. Several internet sites also allow direct download and printing of USGS maps (e.g., www.topozone.com, www.topozone.com, <a href="

Open Water Impact Site Number (indicate on map)	Type of Impact*	Area of Impact (acres)	Name of Waterbody (if applicable)	Type of Waterbody (lake, pond, estuary, sound, bay, ocean, etc.)

List each impact separately and identify temporary impacts. Impacts include, but are not limited to: fill, excavation, dredging, flooding, drainage, bulkheads, etc.

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5.	Pond Creation If construction of a pond is proposed, associated wetland and stream impacts should be included above in the wetland and stream impact sections. Also, the proposed pond should be described here and illustrated on any maps included with this application. Pond to be created in (check all that apply): uplands stream wetlands Describe the method of construction (e.g., dam/embankment, excavation, installation of draw-down valve or spillway, etc.):
	Proposed use or purpose of pond (e.g., livestock watering, irrigation, aesthetic, trout pond, local stormwater requirement, etc.):
	Size of watershed draining to pond: Expected pond surface area:
Im	pact Justification (Avoidance and Minimization)

VII. In

Specifically describe measures taken to avoid the proposed impacts. It may be useful to provide information related to site constraints such as topography, building ordinances, accessibility, and financial viability of the project. The applicant may attach drawings of alternative, lower-impact site layouts, and explain why these design options were not feasible. Also discuss how impacts were minimized once the desired site plan was developed. If applicable, discuss construction techniques to be followed during construction to reduce impacts.

VIII. Mitigation

DWQ - In accordance with 15A NCAC 2H .0500, mitigation may be required by the NC Division of Water Quality for projects involving greater than or equal to one acre of impacts to freshwater wetlands or greater than or equal to 150 linear feet of total impacts to perennial streams.

USACE - In accordance with the Final Notice of Issuance and Modification of Nationwide Permits, published in the Federal Register on March 9, 2000, mitigation will be required when necessary to ensure that adverse effects to the aquatic environment are minimal. Factors including size and type of proposed impact and function and relative value of the impacted aquatic resource will be considered in determining acceptability of appropriate and practicable mitigation as proposed. Examples of mitigation that may be appropriate and practicable include, but are not limited to: reducing the size of the project; establishing and maintaining wetland and/or upland vegetated buffers to protect open waters such as streams; and replacing losses of aquatic resource functions and values by creating, restoring, enhancing, or preserving similar functions and values, preferable in the same watershed.

If mitigation is required for this project, a copy of the mitigation plan must be attached in order for USACE or DWQ to consider the application complete for processing. Any application lacking a required mitigation plan or NCWRP concurrence shall be placed on hold as incomplete. An applicant may also choose to review the current guidelines for stream restoration in DWQ's Draft Technical Guide for Stream Work in North Carolina, available at http://h2o.enr.state.nc.us/ncwetlands/strmgide.html.

1. Provide a brief description of the proposed mitigation plan. The description should provide as much information as possible, including, but not limited to: site location (attach directions and/or map, if offsite), affected stream and river basin, type and amount (acreage/linear feet) of mitigation proposed (restoration, enhancement, creation, or preservation), a plan view, preservation mechanism (e.g., deed restrictions, conservation easement, etc.), and a description of the current site conditions and proposed method of construction. Please attach a separate sheet if more space is needed.

N/A			

2. Mitigation may also be made by payment into the North Carolina Wetlands Restoration Program (NCWRP). Please note it is the applicant's responsibility to contact the NCWRP at (919) 733-5208 to determine availability and to request written approval of mitigation prior to submittal of a PCN. For additional information regarding the application process for the NCWRP, check the NCWRP website at http://h2o.enr.state.nc.us/wrp/index.htm. If use of the NCWRP is proposed, please check the appropriate box on page three and provide the following information:

Amount of stream mitigation requested (linear feet): N/A
Amount of buffer mitigation requested (square feet): N/A
Amount of Riparian wetland mitigation requested (acres): N/A
Amount of Non-riparian wetland mitigation requested (acres): N/A
Amount of Coastal wetland mitigation requested (acres): N/A

IX. Environmental Documentation (required by DWQ)

Does the project involve	an expenditure	of public	(federal/state)	funds	or the	use	of public
(federal/state) land?							
Yes 🛚	No 🗌						

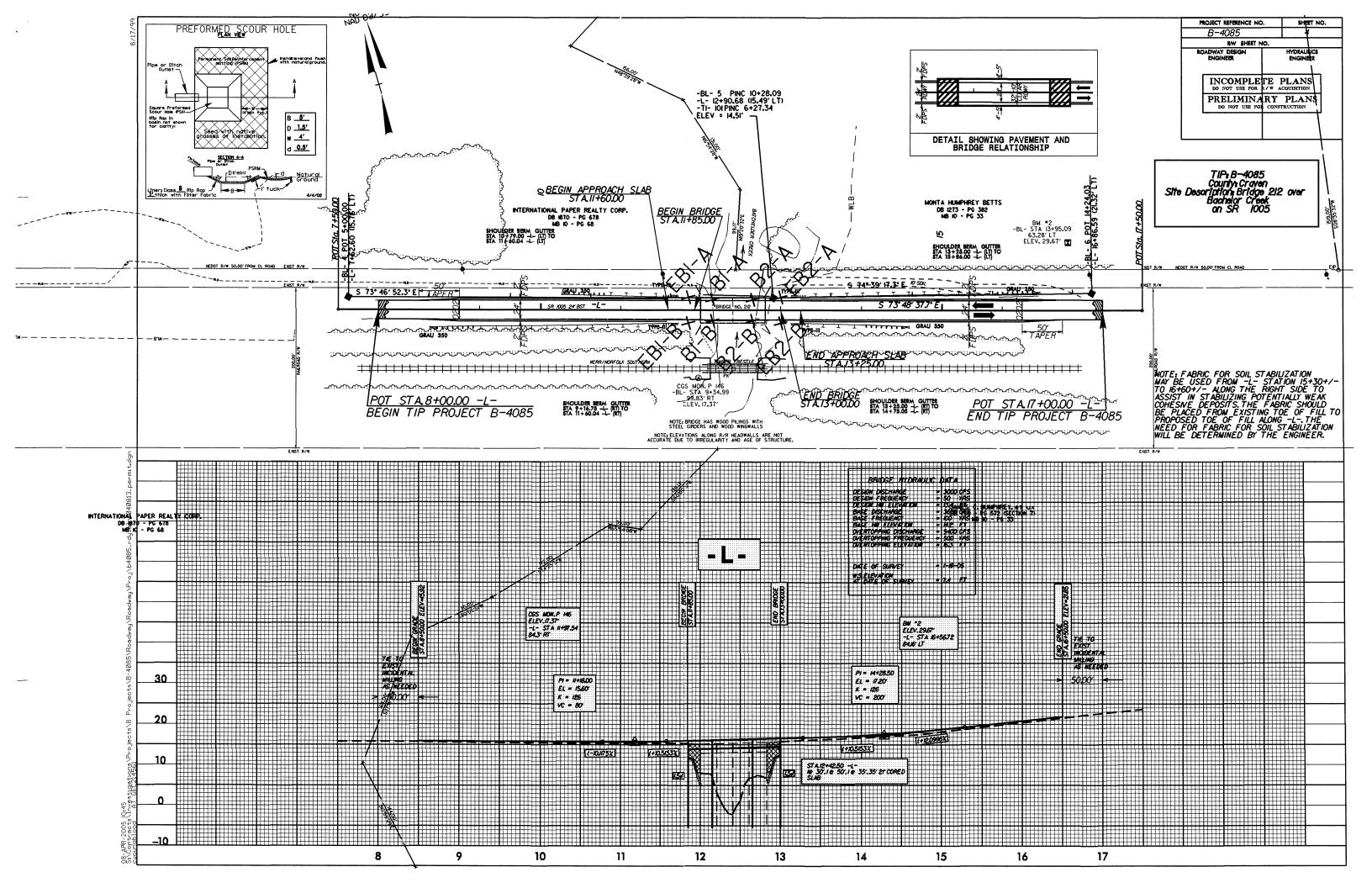
If yes, does the project requirements of the Nat Note: If you are not secondinator at (919) 733-5 Yes No	ional or North Caure whether a North Caure whether a North Caure C	arolina Environn EPA/SEPA docu	nental Policy A ament is require	ct (NEPA/SEPA)? ed, call the SEPA
If yes, has the document recopy of the NEPA or SEP Yes No	A final approval le	•	learinghouse? If	f so, please attach a
Proposed Impacts on Ri	parian and Water	shed Buffers (re	quired by DWQ))
It is the applicant's (or a required state and local by justification for these imp and must be clearly identification, whether or not improved Regional Office may be applicant's discretion. Will the project impact (Neuse), 15A NCAC 2B Water Supply Buffer Required Yes Note Note Note Note Note Note Note Note	puffers associated acts in Section VII fiable on the accordance are proposed included as appropriately protected riparian .0259 (Tar-Pamliairements), or other If you answere and acreage of imp	with the project. above. All propring site plant it to the buffers. opriate. Photograph buffers identifico), 15A NCAC r (please identifyed "yes", provide pact to each zone	The applicant posed impacts much. All buffers in Correspondence aphs may also died within 15A 2B .0250 (Ranthe following infect of the riparian	must also provide ust be listed herein, nust be shown on a ce from the DWQ be included at the NCAC 2B .0233 dleman Rules and
Zone*	Impact (square feet)	Multiplier	Required Mitigation	
1	1	3		
2		1.5		
Total				
	• -	s what type of m	itigation is propo	•
Payment into the Riparian identified within 15A NCA	Buffer Restoration	n Fund). Please a		

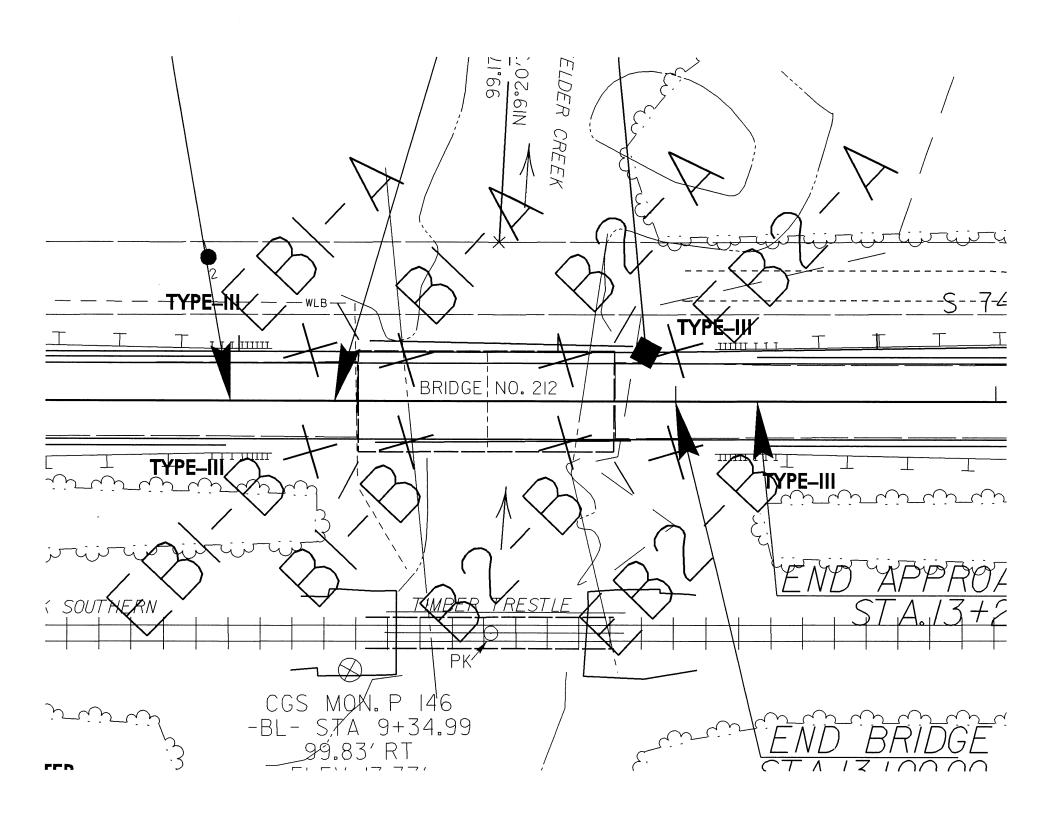
X.

XII.	Sewage Disposal (required by DWQ)
	Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility. N/A
XIII.	Violations (required by DWQ)
	Is this site in violation of DWQ Wetland Rules (15A NCAC 2H .0500) or any Buffer Rules? Yes No
	Is this an after-the-fact permit application? Yes □ No ☒
XIV.	Other Circumstances (Optional):
	It is the applicant's responsibility to submit the application sufficiently in advance of desired construction dates to allow processing time for these permits. However, an applicant may choose to list constraints associated with construction or sequencing that may impose limits on work schedules (e.g., draw-down schedules for lakes, dates associated with Endangered and Threatened Species, accessibility problems, or other issues outside of the applicant's control).

Stormwater (required by DWQ)

XI.





Scale 1:30